

Title (en)

METHOD FOR THE PRECISION MOULDING OF GLASS ARTICLES, METHOD OF MANUFACTURING A MOULD, AND MOULD FOR THE PRECISION MOULDING OF GLASS ARTICLES

Publication

EP 0057952 B1 19840606 (EN)

Application

EP 82200094 A 19820127

Priority

NL 8100602 A 19810209

Abstract (en)

[origin: US4397669A] A method for the manufacture of a mould intended for the precision moulding of glass articles, notably aspherical lenses. The desired shape and dimensional accuracy are imparted to a mechanically treated preform by an accurate polishing operation. Subsequently, the polished preform is prestressed and reinforced by a chemothermal treatment. The surface of the mould thus obtained comprises an edge zone which is subject to compressive stress and which changes over, via a neutral stress-free zone, to the core which is subject to tensile stress. The mould in accordance with the invention has a longer life and produces moulded products having a quality which is higher than that of products made by means of known moulds.

IPC 1-7

C03B 11/08; **G02B 3/02**

IPC 8 full level

C03B 11/00 (2006.01); **C03B 11/08** (2006.01); **C03C 21/00** (2006.01); **G02B 3/02** (2006.01)

CPC (source: EP US)

C03B 11/084 (2013.01 - EP US); **C03B 2215/05** (2013.01 - EP US); **C03B 2215/76** (2013.01 - EP US)

Cited by

US4936893A

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0057952 A1 19820818; **EP 0057952 B1 19840606**; AT E7780 T1 19840615; DE 3260199 D1 19840712; JP S57145038 A 19820907; JP S6363490 B2 19881207; NL 8100602 A 19820901; US 4397669 A 19830809

DOCDB simple family (application)

EP 82200094 A 19820127; AT 82200094 T 19820127; DE 3260199 T 19820127; JP 1770382 A 19820208; NL 8100602 A 19810209; US 33995982 A 19820118